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Terms	Documents
L14 and I21	3

**Database:**

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** Sunday, December 01, 2002   [Printable Copy](#)   [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L22</u>	L14 and l21	3	<u>L22</u>
<u>L21</u>	L20 and meta same information	43	<u>L21</u>
<u>L20</u>	L19 and multiple same party	260	<u>L20</u>
<u>L19</u>	search same engines	7385	<u>L19</u>
<u>L18</u>	L17 and multiple same party	1	<u>L18</u>
<u>L17</u>	meta adj search adj engines	42	<u>L17</u>
<u>L16</u>	((((709/245)!.CCLS.) )	688	<u>L16</u>
<u>L15</u>	((((709/227)!.CCLS.) )	1215	<u>L15</u>
<u>L14</u>	((((709/224)!.CCLS.) )	1721	<u>L14</u>
<u>L13</u>	((((709/218)!.CCLS.) )	879	<u>L13</u>
<u>L12</u>	((((709/\$)!.CCLS.) )	20893	<u>L12</u>
<u>L11</u>	((((345/968)!.CCLS.) )	112	<u>L11</u>
<u>L10</u>	((((345/866)!.CCLS.) )	294	<u>L10</u>
<u>L9</u>	((((345/\$)!.CCLS.) )	48814	<u>L9</u>
<u>L8</u>	((((707/\$)!.CCLS.) )	17476	<u>L8</u>
<u>L7</u>	((((707/10)!.CCLS.) )	2522	<u>L7</u>
<u>L6</u>	((((707/7)!.CCLS.) )	556	<u>L6</u>
<u>L5</u>	((((707/6)!.CCLS.) )	806	<u>L5</u>
<u>L4</u>	((((707/4)!.CCLS.) )	1139	<u>L4</u>
<u>L3</u>	((((707/2)!.CCLS.) )	1229	<u>L3</u>
<u>L2</u>	((((707/5)!.CCLS.) )	993	<u>L2</u>
<u>L1</u>	((707/3)!.CCLS.)	2284	<u>L1</u>

END OF SEARCH HISTORY

**WEST****End of Result Set**☐ **Generate Collection** **Print**

L21: Entry 43 of 43

File: USPT

Oct 20, 1998

US-PAT-NO: 5826261

DOCUMENT-IDENTIFIER: US 5826261 A

TITLE: System and method for querying multiple, distributed databases by selective sharing of local relative significance information for terms related to the query

DATE-ISSUED: October 20, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spencer; Graham	Cupertino	CA	95014	

APPL-NO: 08/ 644302 [PALM]

DATE FILED: May 10, 1996

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 707/5; 707/1, 707/2, 707/3, 707/10

US-CL-CURRENT: 707/5; 707/1, 707/10, 707/2, 707/3

FIELD-OF-SEARCH: 707/5, 707/1, 707/2, 707/3, 707/10

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

**Search Selected****Search ALL**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5321833</u>	June 1994	Chang et al.	707/5
<input type="checkbox"/>	<u>5640553</u>	June 1997	Schultz	707/5
<input type="checkbox"/>	<u>5659732</u>	August 1997	Kirsch	707/5

## OTHER PUBLICATIONS

K. Obraczka, et al., "Internet Resource Discovery Services", IEEE, pp. 8-22, Sep. 1993.

S. Al-Hawamdeh, et al., "Compound Document Processing System", IEEE, pp. 640-644, Sep. 1991.

B. Yuwono, et al., "Search and Ranking Algorithms for Locating Resources on the World Wide Web", IEEE, pp. 164-171, 1996.

P. Danzig, et al., "Distributed Indexing: A Scalable Mechanism for Distributed Information Retrieval", Proceedings of the 14th Annual International ACM/SIGIR Conference, pp. 220-229, Oct. 1991.

L. Gravano, et al., "The Effectiveness of GIOSS for the Text Database Discovery Problem", Proceedings of the 1994 ACM SIGMOD, pp. 126-137, Jun. 1994.

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Salton, G., "A Blueprint for Automatic Indexing", ACM Special Interest Group on Information Retrieval, vol. XVI, No. 2, pp. 22-38, Fall 1981.

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Korfhage, R.R., "To See, or Not to See--Is That the Query?", ACM/SIGIR Proceedings of the 14th International Conference on Research & Development in Information Retrieval, pp. 134-141, 1991.

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Min; Donald

ABSTRACT:

A system, method, and various software products provide improved information retrieval performance from multiple document databases by retrieving from the multiple document databases in response to a user query, a set of documents that globally satisfy the query, even though each database maintains independent document indices, term frequency information, and scoring functions. The global search result approximates, to any desired degree of error, the search results that would have been obtained had the multiple document databases been globally indexed. This is done by sharing at the time the query is executed, a small subset of information about the local relative significance of terms related to the user's query, and from this information, determining a global relative significance of such terms. From the global relative significance, the individual document databases determine their query results, which are then merged into a global set of documents satisfying the query. The shared local relative significance information may be the inverse document frequency of each of a number of terms related to the query, or it may be the total frequency of each of such terms. The global relative significance may correspondingly be a global inverse document frequency, or a global term frequency from which the global inverse document frequency is calculated.

38 Claims, 7 Drawing figures